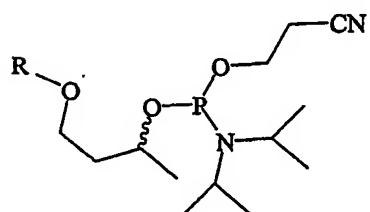
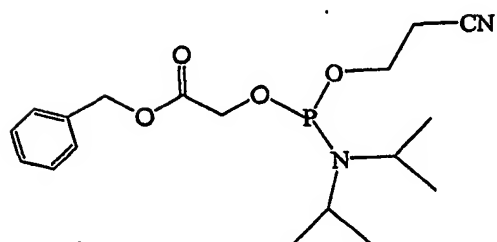


What is claimed is

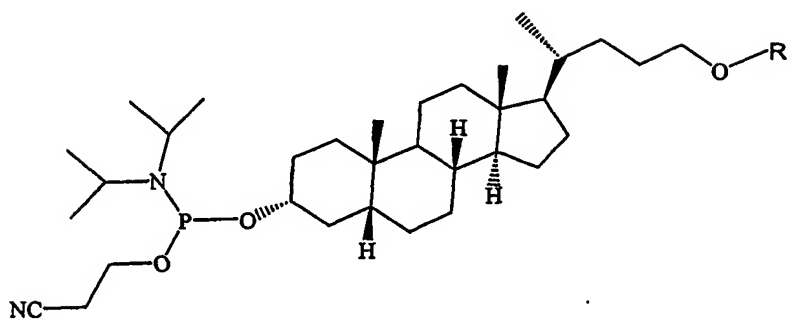
1. A phosphoramidite compound of formula (I), (II), (III), (IV) or (V):



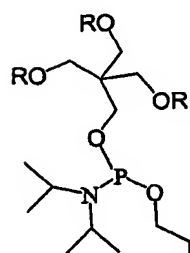
(1)



(II)

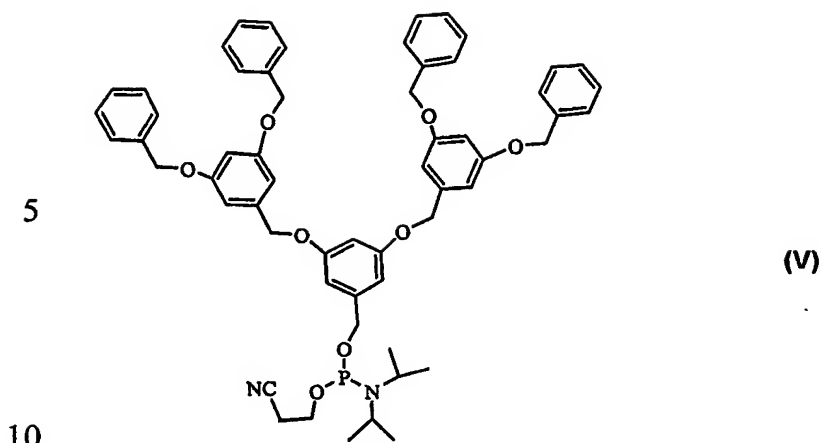


(III)



(IV)





wherein:

R is a dimethoxytrityl (DMTr), levulinyl (Lev) or tert-butyltrimethylsilyl (TBDMS) group.

15

2. The compound of claim 1, which is selected from the group consisting of:

(S)-(+)-1-O-DMTr-3-O-(2-cyanoethyl)-N,N-diisopropylphosphoramidite)-1,3-butanediol;

20

(R)-(-)-1-O-DMTr-3-O-(2-cyanoethyl)-N,N-diisopropylphosphoramidite)-1,3-butanediol;

O-((2-cyanoethyl)-N,N-diisopropylphosphoramidite)-benzylglycolate;

25

O-DMTr-((2-cyanoethyl)-N,N-diisopropylphosphoramidite)-lithocholic alcohol;

O-tri-DMTr-((2-cyanoethyl)-N,N-diisopropylphosphoramidite)-pentaerithritol;

O-DMTr-O-di-Lev-O-((2-cyanoethyl)-N,N-diisopropylphosphoramidite)-pentaerithritol; and

30

O-DMTr-O-Lev-O-TBDMS-((2-cyanoethyl)-N,N-diisopropylphosphoramidite)-pentaerithritol.